

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	568	(428/692 or "64.5") and ferrite	USPAT; US-PGPUB	OR	OFF	2005/02/16 14:08
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S2	0	("6387510or5997977or6187407or6214429or6303528or6277465or6277484or6332338or20010022705").PN.	USPAT; US-PGPUB	OR	OFF	2004/11/15 17:37
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S4	6	"203045"	USPAT	OR	OFF	2005/02/15 19:39
S5	0	(GLASS w1 SUBSTRATE) and hirataka and takashi and tetsuo and ken	USPAT	OR	OFF	2004/11/15 17:56
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S7	1	"20040157085"	USPAT; US-PGPUB	OR	OFF	2005/02/07 14:33
S8	4872	"428"/\$ and ferrite	USPAT; US-PGPUB	OR	OFF	2005/02/09 14:13
S9	4438	"428"/\$ and ferrite and (particle or grain)	USPAT; US-PGPUB	OR	ON	2005/02/09 12:25
S10	597	S9 and anisotropy	USPAT; US-PGPUB	OR	ON	2005/02/07 18:09
S11	86	S10 and (uniaxial same anisotropy)	USPAT; US-PGPUB	OR	ON	2005/02/04 14:43
S12	53	S11 and parallel	USPAT; US-PGPUB	OR	ON	2005/02/04 14:43
S13	18	S11 and isotropic	USPAT; US-PGPUB	OR	ON	2005/02/04 14:44
S14	34	S11 and ("Fe" and "Ni" and "Zn" and "Co")	USPAT; US-PGPUB	OR	ON	2005/02/09 14:13
S15	32	S11 and ("Fe" and "Ni" and "Zn" and "O")	USPAT; US-PGPUB	OR	ON	2005/02/04 14:45
S16	32	S14 and S15	USPAT; US-PGPUB	OR	ON	2005/02/04 15:22
S17	1	"20040238796"	USPAT; US-PGPUB	OR	ON	2005/02/04 15:06
S18	4	"3038006"	USPAT; US-PGPUB; DERWENT	OR	ON	2005/02/04 15:23
S19	28	"4171231"	USPAT	OR	OFF	2005/02/08 20:08
S20	11	"4837046"	USPAT	OR	OFF	2005/02/07 11:02

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S23	0	"428"/\$ and ("axis of easy magnetization")	USPAT; US-PGPUB	OR	OFF	2005/02/07 18:07
S24	666	"428"/\$ and ("easy magnetization")	USPAT; US-PGPUB	OR	OFF	2005/02/07 18:08
S25	209	S24 and ferrite	USPAT; US-PGPUB	OR	OFF	2005/02/07 18:08
S26	170	S25 and 428/694\$	USPAT; US-PGPUB	OR	OFF	2005/02/07 18:08
S27	90	S26 and anisotropy	USPAT; US-PGPUB	OR	ON	2005/02/07 18:09
S28	70	S27 and (particle or grain)	USPAT; US-PGPUB	OR	ON	2005/02/07 18:10
S29	65	S28 and ("Ni" or "Zn" or "NiZn")	USPAT; US-PGPUB	OR	ON	2005/02/07 18:11
S30	41	S28 and (("Ni" and "Zn") or ("NiZn"))	USPAT; US-PGPUB	OR	ON	2005/02/07 18:11
S31	41	S30 and "Co"	USPAT; US-PGPUB	OR	ON	2005/02/07 20:14
S32	32	("428"/\$) and ("easy magnetization") and ("Co" with ion)	USPAT; US-PGPUB	OR	OFF	2005/02/07 20:17
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S36	31	S35 and anisotropy	USPAT; US-PGPUB	OR	ON	2005/02/08 15:45
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S39	2	S37 and uniaxial	USPAT; US-PGPUB	OR	OFF	2005/02/08 20:18
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S41	2	S40 and uniaxial	USPAT; US-PGPUB	OR	OFF	2005/02/09 12:18
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S47	5	S45 and ((crystal or plane or lattice) with ("222" and "311"))	USPAT; US-PGPUB	OR	ON	2005/02/09 13:00
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S49	9	"362229"	USPAT; US-PGPUB	OR	ON	2005/02/09 13:00
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S52	1661	S51 and (magnetic)	USPAT; US-PGPUB	OR	ON	2005/02/09 14:12
S53	17	S52 and ((crystal or plane or lattice) with ("222" or "311"))	USPAT; US-PGPUB	OR	ON	2005/02/09 14:12
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S56	1	"6159594"	USPAT; US-PGPUB	OR	OFF	2005/02/10 12:08
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S59	155	(252/500 or 252/513 or 252/521-2) and ferrite	USPAT; US-PGPUB	OR	ON	2005/02/11 15:32
S60	189	(428/64.3 or 428/65.3) and ferrite	USPAT; US-PGPUB	OR	ON	2005/02/11 15:34
S61	1	"20040166372"	USPAT; US-PGPUB	OR	ON	2005/02/14 16:00
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S63	0	S62 and (lattice or "x")	USPAT	OR	OFF	2005/02/15 19:39
S64	0	S62 and (crystal or "ray")	USPAT	OR	OFF	2005/02/15 19:40
S65	0	S62 and crystal	USPAT	OR	OFF	2005/02/15 19:41
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S67	1	S62 and crystalline	USPAT; US-PGPUB	OR	OFF	2005/02/15 19:42

S68	0	S62 and (lattice or x or ray)	USPAT; US-PGPUB	OR	OFF	2005/02/15 19:42
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## Temperature-stable low-noise ferrite memory cores

Kuroda, C. Kawashima, T.

Nippon Telegraph and Telephone Public Corporation, Ibaraki, Japan

*This paper appears in: **Magnetics, IEEE Transactions on***

Publication Date: Sep 1969

On page(s): 192 - 196

Volume: 5 , Issue: 3

ISSN: 0018-9464

### Abstract:

Temperature-stable low-noise memory cores made from the substituted lithium nickel ferrites were studied. Ferrite compositions which are suitable for miniaturized have been developed by studying magnetic properties of the ferrite in the system and Ni-M-M' ferrite (M: Mn, **Fe**, **Co**, **Ni**, Cu, and **Zn**). Technological approaches for fabricating small memory cores were made by studying the effect of ferrite parameters and sintering conditions on magnetic properties of the substituted ferrites. Typical pulse characteristics taken with coincident current mode for cores of 0.5 and 0.27 mm  $\phi$  OD are presented. It was found that the **Ni-Mn-F(II)** ferrites are suitable for a low-drive high signal-to-noise ratio (dV1/dVz) temperature-stable memory cores.

### Index Terms:

Ferrite core memories

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## Effect of substitution of divalent ions on the electric magnetic properties of Ni-Zn-Me ferrites

Rezlescu, E. Sachelarie, L. Popa, P.D. Rezlescu, N.

Inst. of Tech. Phys., Isai, Romania ;

*This paper appears in: **Magnetics, IEEE Transactions on***

Publication Date: Nov 2000

On page(s): 3962 - 3967

Volume: 36 , Issue: 6

ISSN: 0018-9464

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Inspec Accession Number: 6896714

### Abstract:

The effect of  $\text{Cu}^{2+}$ ,  $\text{Cd}^{2+}$ ,  $\text{Co}^{2+}$ ,  $\text{Ca}^{2+}$ ,  $\text{Mn}^{2+}$ , and  $\text{Mg}^{2+}$  ions on the physical properties of stoichiometric  $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$  ferrite is investigated. The specimen is prepared by a conventional manufacturing method without atmosphere control. The divalent ions replace one-half the  $\text{Ni}^{2+}$  ion molar content. We found that the magnetic and electrical properties of Ni-Zn ferrite changes considerably with the substituent species. Manganese and cobalt ions increase electrical resistivity by about two orders of magnitude, while the Ca and Mn ions improve thermal stability of the initial permeability. We also discuss our investigation of the physical properties of the Ni-Zn-Me ferrites on the basis of site occupation of the cation species in the spinel structure.

### Index Terms:

density electrical resistivity ferrites magnetic permeability magnetisation nickel compounds sintering thermal stability zinc compounds  $\text{Ca}^{2+}$   $\text{Cd}^{2+}$   $\text{Co}^{2+}$   $\text{Cu}^{2+}$   $\text{Mg}^{2+}$   $\text{Mn}^{2+}$  ferrites  $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$  cation species density divalent ions substitution electrical initial permeability magnetic properties physical properties sintering temperature site occupation spinel structure stoichiometric  $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$  ferrite thermal stability

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